

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P534305

Luminaire Tested: **GALN-SA9D-740-U-5MQ-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P534305  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9D-740-U-5MQ-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
MEDIUM OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 42089 lumens  
Efficiency: N/A  
Efficacy: 76.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

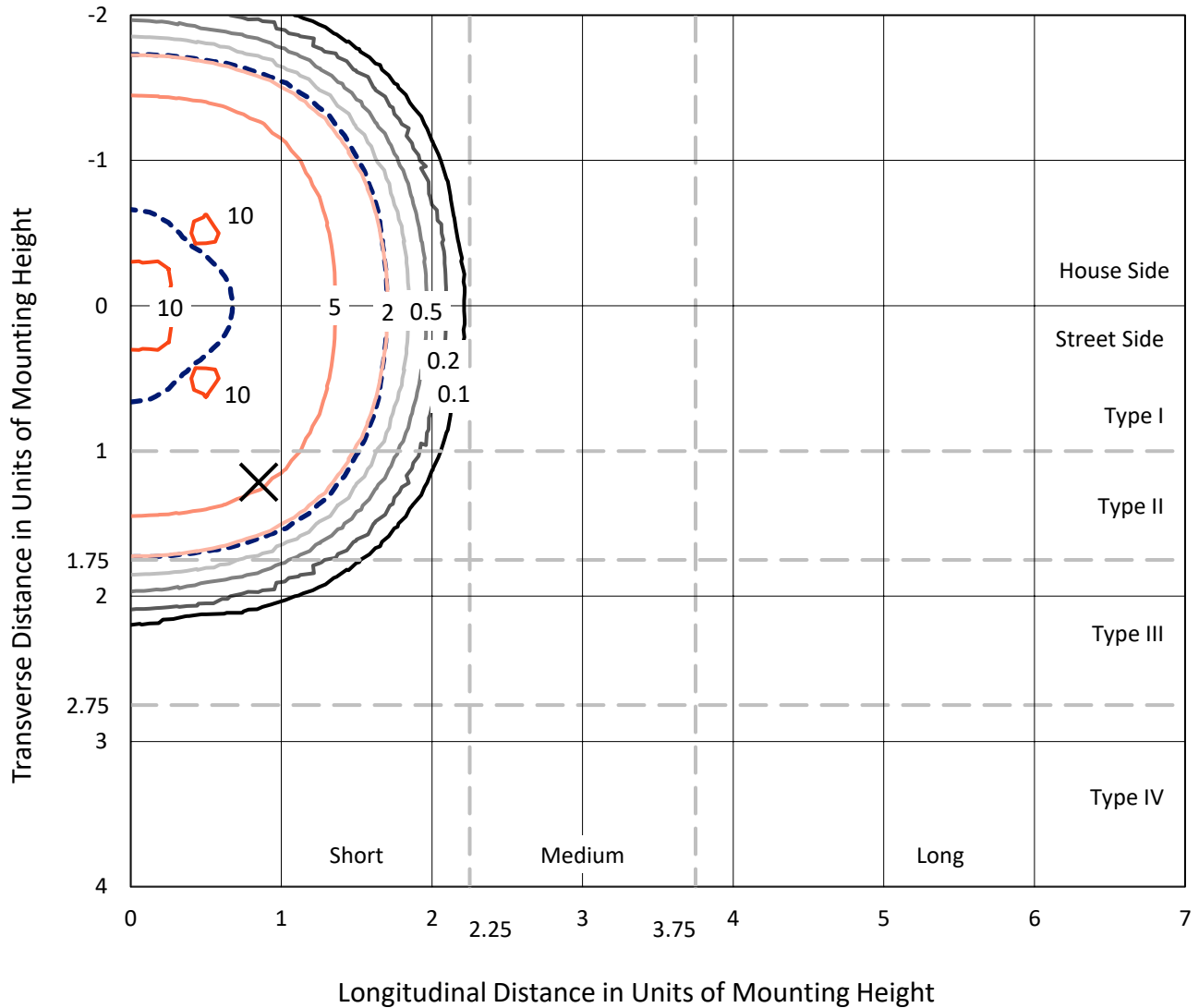
Input Watts (W): 552  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

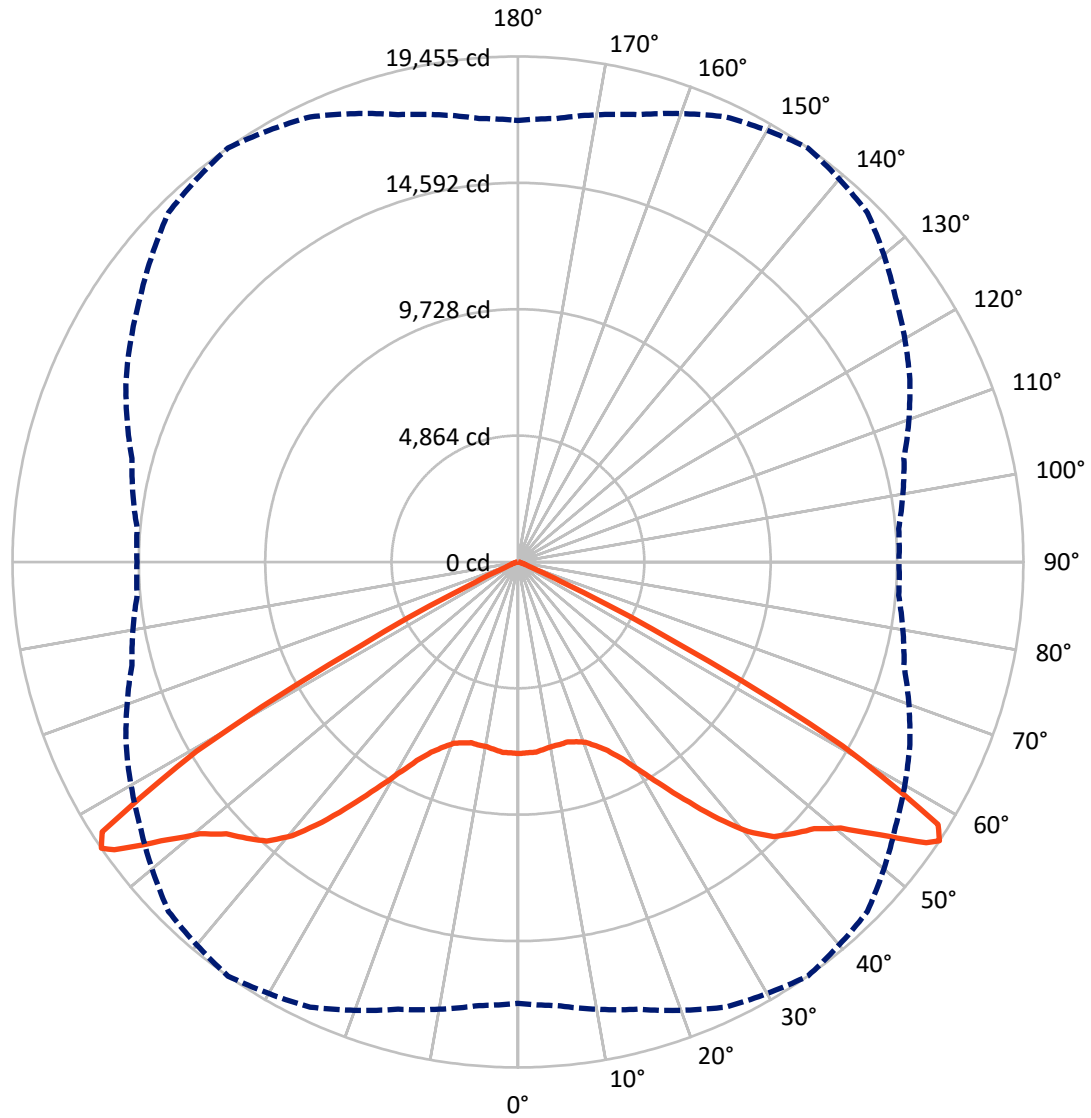
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.8 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral    - - - Horizontal Cone Through 56-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	21044.5	0.0	21044.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	21044.5	0.0	21044.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	42089.0	0.0	42089.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	693.1	1.6
10°-20°	2023.6	4.8
20°-30°	3664.4	8.7
30°-40°	6795.2	16.1
40°-50°	11153.9	26.5
50°-60°	14369.5	34.1
60°-70°	3166.9	7.5
70°-80°	183.7	0.4
80°-90°	38.7	0.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	42089.0	100.0
0°-180°	42089.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P534305

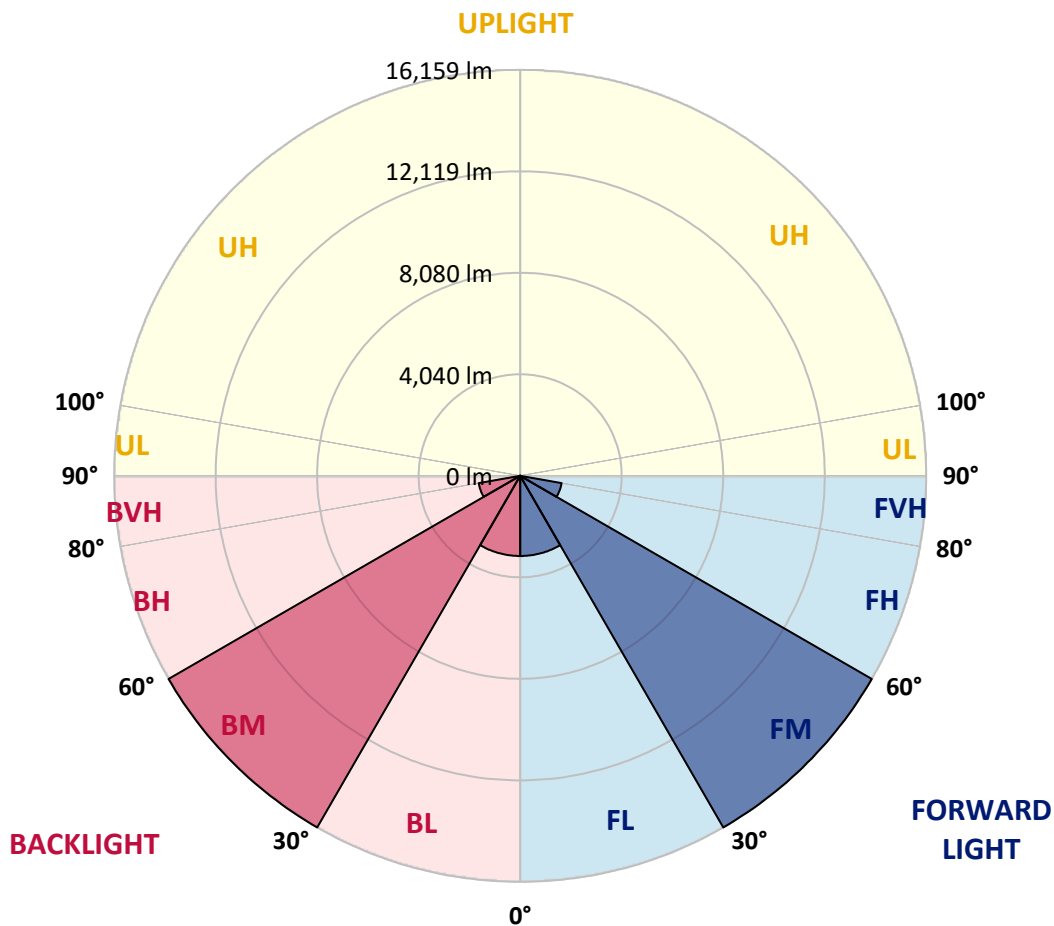
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3190.6	7.6			
FM (30°-60°)	16159.3	38.4			
FH (60°-80°)	1675.3	4.0			G1/1800
FVH (80°-90°)	19.3	0.0			G1/100
BL (0°-30°)	3190.6	7.6	B4/5000		
BM (30°-60°)	16159.3	38.4	B5		
BH (60°-80°)	1675.3	4.0	B3/2500		G1/1800
BVH (80°-90°)	19.3	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	7374.9	7374.9	7374.9	7374.9	7374.9	7374.9	7374.9	7374.9	7374.9	7374.9	7374.9
2.5°	7390.2	7390.2	7397.8	7405.4	7352.0	7329.1	7336.8	7321.5	7313.9	7336.8	7336.8
5°	7367.3	7367.3	7344.4	7352.0	7352.0	7283.4	7283.4	7298.6	7298.6	7252.9	7237.6
7.5°	7306.3	7291.0	7260.5	7298.6	7275.8	7275.8	7222.4	7184.2	7169.0	7199.5	7169.0
10°	7176.6	7184.2	7214.7	7230.0	7214.7	7260.5	7169.0	7115.6	7062.2	7039.3	7039.3
12.5°	7115.6	7161.4	7115.6	7153.7	7207.1	7169.0	7115.6	7077.5	7001.2	6970.7	6970.7
15°	7108.0	7138.5	7153.7	7207.1	7184.2	7199.5	7092.7	7047.0	6932.6	6879.2	6856.3
17.5°	7100.3	7138.5	7161.4	7260.5	7275.8	7283.4	7199.5	7062.2	6963.1	6909.7	6856.3
20°	7184.2	7199.5	7245.2	7344.4	7405.4	7512.2	7359.6	7214.7	7001.2	6940.2	6917.3
22.5°	7291.0	7367.3	7413.0	7519.8	7680.0	7771.5	7573.2	7390.2	7169.0	7092.7	7001.2
25°	7634.2	7618.9	7695.2	7916.4	8046.0	8114.7	7954.5	7687.6	7397.8	7306.3	7321.5
27.5°	8061.3	8076.5	8145.2	8389.2	8579.9	8686.7	8496.0	8145.2	7863.0	7710.5	7695.2
30°	8618.0	8602.8	8679.0	9007.0	9350.2	9510.3	9174.8	8762.9	8488.4	8290.1	8335.8
32.5°	9205.3	9212.9	9426.4	9723.9	10280.6	10593.3	10051.8	9548.5	9136.6	8999.4	8930.7
35°	10074.7	10112.8	10280.6	10738.2	11356.0	11760.2	11165.3	10562.8	10090.0	9838.3	9868.8
37.5°	11150.1	11111.9	11394.1	11889.8	12538.1	12835.5	12332.2	11645.8	11165.3	10997.5	11104.3
40°	12294.0	12332.2	12477.1	12927.0	13651.6	13849.9	13102.5	12728.8	12309.3	12225.4	12355.1
42.5°	13438.0	13415.1	13521.9	13926.1	14452.4	14315.1	13872.7	13651.6	13354.1	13186.3	13361.8
45°	14276.9	14238.8	14437.1	14711.7	14902.3	14643.0	14444.7	14368.5	14215.9	14032.9	14193.1
47.5°	15093.0	15062.5	15253.1	15329.4	15344.7	15001.5	15039.6	15176.9	14795.6	14414.2	14597.3
50°	15787.0	15733.6	15970.0	16137.8	16099.7	15550.6	15687.9	15550.6	14955.7	14505.7	14437.1
52.5°	16946.2	16969.1	17220.8	17525.9	17434.4	16976.8	16778.5	16153.1	15390.4	14986.2	14749.8
55°	17678.4	17564.0	17998.7	18967.3	19074.1	18601.2	17724.2	16801.3	15657.4	15161.6	15100.6
56°	16992.0	17136.9	17823.3	18906.3	19455.4	19020.7	17747.0	16641.2	15382.8	14711.7	14665.9
57.5°	15245.5	15169.3	16099.7	17579.3	19074.1	18891.0	17121.7	15497.2	14032.9	13277.9	13186.3
60°	9487.5	9708.6	10524.7	12355.1	14353.2	14444.7	12690.6	11295.0	9586.6	8915.5	9075.6
62.5°	3714.1	3523.5	4034.5	5399.6	6772.4	7077.5	6413.9	5331.0	4377.7	3714.1	3668.4
65°	861.8	838.9	945.7	1304.1	1822.8	2112.6	2005.8	1441.4	1060.1	1006.7	930.4
67.5°	488.1	488.1	465.2	465.2	511.0	541.5	518.6	511.0	533.9	556.7	549.1
70°	343.2	335.6	320.3	327.9	312.7	312.7	335.6	373.7	404.2	404.2	411.8
72.5°	205.9	205.9	205.9	228.8	228.8	228.8	251.7	282.2	289.8	282.2	274.6
75°	91.5	91.5	106.8	129.7	144.9	152.5	175.4	190.7	205.9	190.7	175.4
77.5°	22.9	22.9	38.1	53.4	68.6	83.9	114.4	137.3	144.9	137.3	114.4
80°	7.6	7.6	15.3	38.1	68.6	83.9	114.4	122.0	129.7	114.4	91.5
82.5°	7.6	7.6	15.3	38.1	53.4	68.6	91.5	106.8	114.4	99.1	91.5
85°	0.0	7.6	15.3	30.5	45.8	61.0	61.0	45.8	38.1	22.9	30.5
87.5°	0.0	0.0	7.6	7.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)